Abstract

A method is for exchanging a first detector module (m), in an X-ray detector in a computed tomograph having a module configuration a, for a second detector module (m'). The first detector module has an associated correction table $(T_{S(a,m,x)})$ for eliminating temperature-dependent signal changes, which is dependent on the respective module configuration of the detector and which is recreatable following the exchange of a detector module. For the first and second detector modules (m, m') in a detector in a reference computed tomograph having the module configuration b, a respective correction table $(T_{S(b,m,x)}, T_{S(b,m'x)})$ is created. Differences, preferably only in the area of the channels of the detector module which is to be exchanged, are ascertained. Finally, the new correction table $(T_{S(a,m',x)})$ for operating the second detector module (m') in the computed tomograph having the module configuration a is calculated by transferring the ascertained difference values to the old correction table $(T_{S(a,m,x)})$.